

Polyphenols are found in almost all plants and are thought to reduce the risk of cancer and cardiovascular disease in recent years. Among them, resveratrol is one of the polyphenolic antioxidants found in red wine and sold as a nutritional supplement. This note describes a determination method for resveratrol in red wine.

In the analysis, a conventional HPLC system, which is usually used with 5 μ m particle columns, was utilized with a 2 μ m particle column. Only to switch the particle size from 5 μ m to 2 μ m improved the sensitivity and reduced the run time significantly. (K.Suzuki)

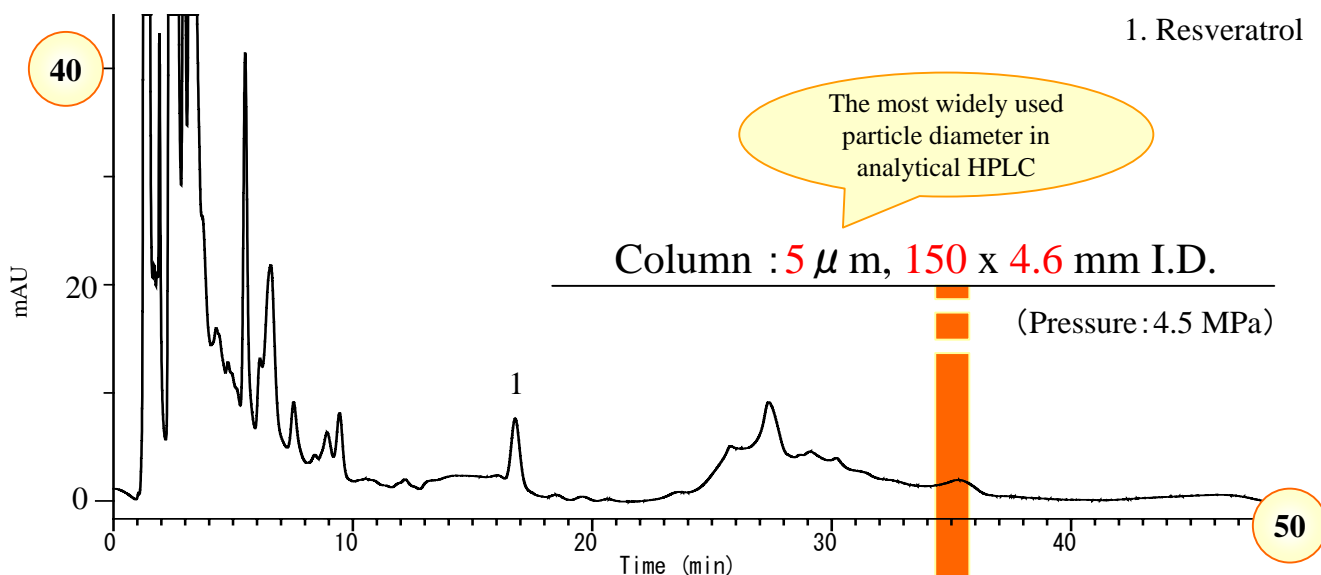
Conditions

Column : Inertsil ODS-3
Eluent : A) CH₃CN
 B) H₂O
 A/B = 20/80, v/v
 (Mixed by a gradient mixer)
Flow rate : 1.0 mL/min
Col. Temp. : 40 °C
Detection : UV 310 nm
Inj. Vol. : 20 μ L

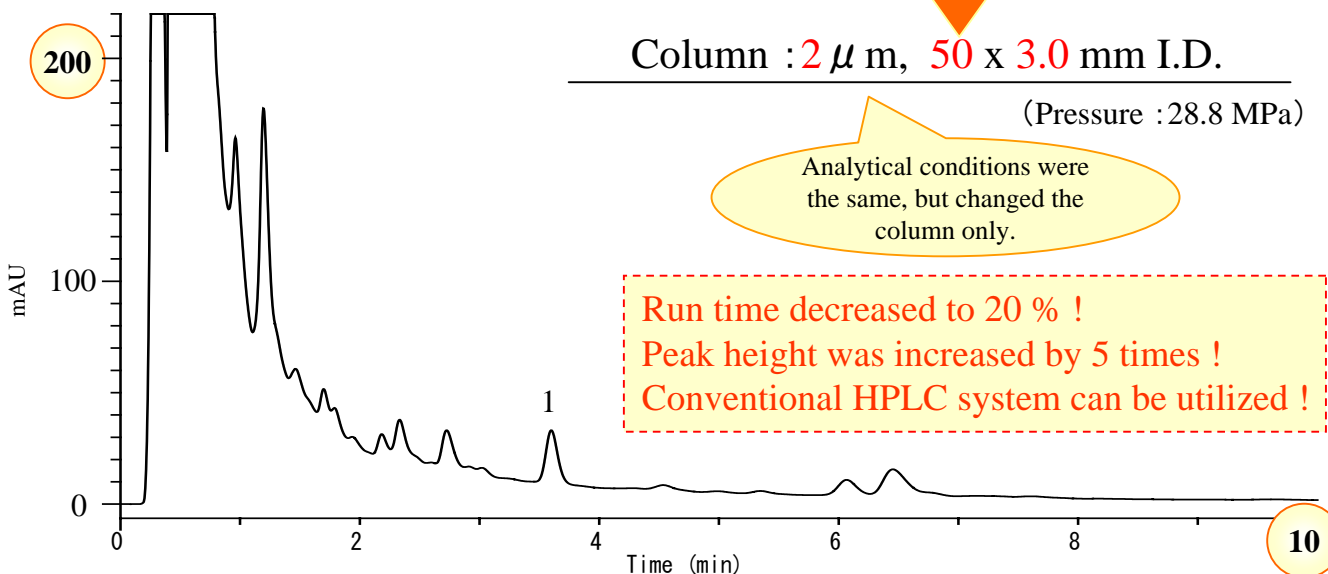
An analysis of resveratrol in red wine

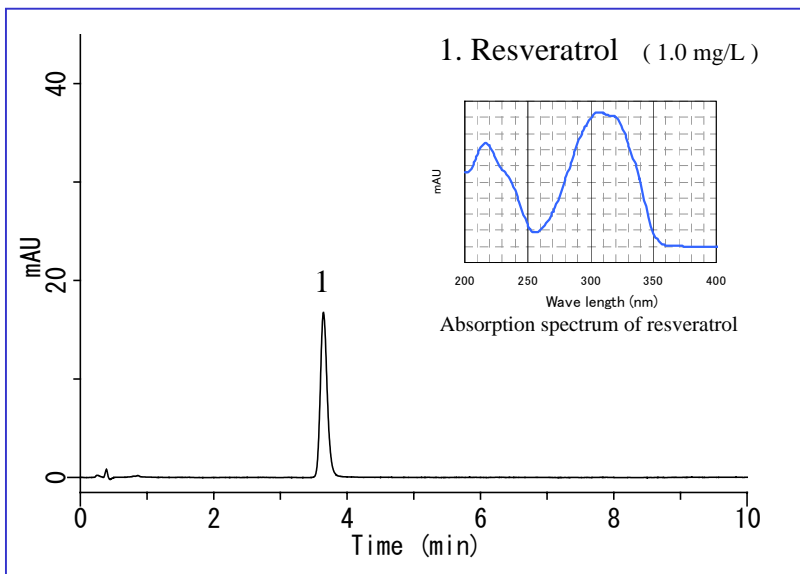
Filtrate of red wine was injected into the HPLC system.

1. Resveratrol

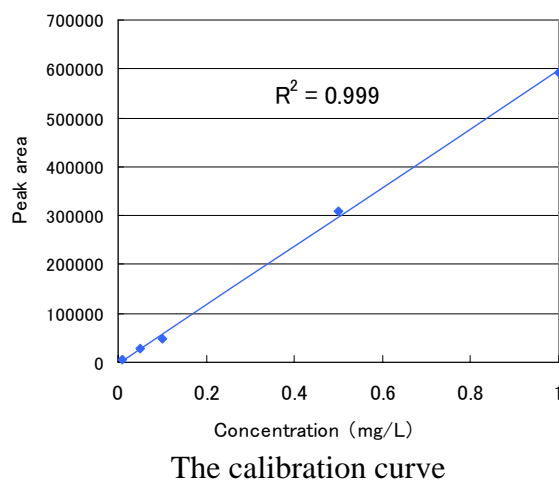
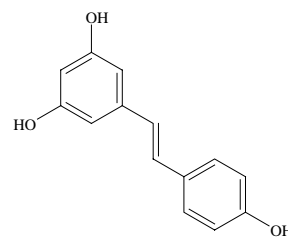


Only the column was changed.



A chromatogram obtained from standard solution(Inertsil ODS-3 (2 μ m, 50 x 3.0 mm I.D.) was used.)

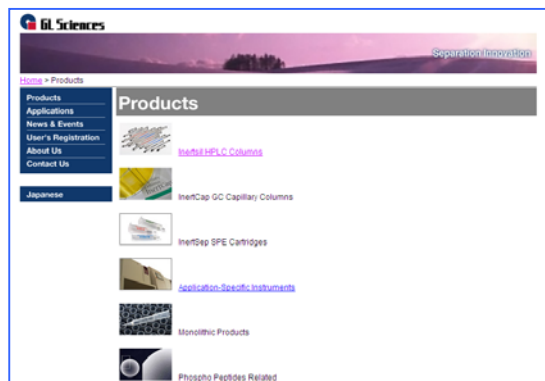
Chemical structure of resveratrol



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